

Fortinet FS-424E-FPOE Datasheet



Product Overview

- The Fortinet FortiSwitch Secure Access Family delivers top-level security, reliable performance, and simplified management for business networks.
- Designed for modern enterprises, it is well-suited for varied environments such as desktops, branch offices, and campus deployments, targeting SMBs to large organizations.
- With 24 Gigabit Ethernet RJ45 ports and 4 10GE SFP+ uplinks, the FS-424E-FPOE offers wire-speed switching, robust PoE+ support, and a switching capacity up to 128 Gbps.
- Standout features include seamless FortiLink integration for central management, extensive stacking for scalability, and hybrid deployment modes to fit diverse IT ecosystems.
- Single-pane management through FortiGate simplifies operations, providing clear visibility and control over all users and connected devices from any location.
- FortiSwitch FS-424E-FPOE enables efficient, secure, and scalable access that empowers businesses to meet new demands in unified security and connectivity.

Product Highlights

- **Versatile Deployment Options:** Designed for a range of uses, from desktop environments to wiring closets, fitting diverse installation needs.
- **Centralized Management & Security:** FortiLink enables unified access management and security control directly through the FortiGate interface for end-to-end protection.
- **Optimized Converged Networking:** Supports smooth delivery of voice, data, and wireless on one network, ideal for SD-Branch and campus settings.
- **High Scalability & Performance:** Compact 1RU form factor supports up to 48 ports, stacking up to 300 switches per FortiGate, with wire-speed switching capabilities.

Detailed Features



FS-424E-FPOE

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Component	Specification
Network Interfaces	24x GE RJ45, 4x 10 GE SFP+ (SFP+ ports support 1 GE SFP)
PoE Support	24 PoE+ ports (802.3af/at)
Switching Capacity	128 Gbps
Stacking	Up to 300 switches per FortiGate
Form Factor	1 RU rackmount



Seamless Security Fabric Integration

FortiSwitch integrates tightly with the Fortinet Security Fabric via FortiLink, allowing direct management from the FortiGate interface. This enables unified visibility and control across the entire network, boosting response speed and security posture while simplifying IT operations.

Centralized and Automated Management

With auto-discovery, centralized VLAN setup, and firmware provisioning, managing large networks becomes fast and efficient. Features like mass software upgrades, centralized PoE control, and LAG/stacking automation reduce administrative workload and support rapid expansion.

Advanced Redundancy and Availability

Support for high availability, split LAG, and dynamic FortiSwitch port profiles ensures uninterrupted service. Active-active high-availability between FortiGate and FortiSwitch, plus stack redundancy, minimize downtime and keep network access stable for business continuity.

Comprehensive Layer 2 and Layer 3 Services

FortiSwitch supports spanning tree, link aggregation, LLDP/MED, IGMP snooping, and advanced routing via FortiGate, including policy-based routing and virtual domains. This allows for flexible topologies and advanced traffic management across complex deployments.

Sophisticated Access Security Controls

Standards-based 802.1X, MAC authentication, device detection, policy-based controls, MAC black/white lists, and host quarantine protect every port from unauthorized access. FortiGate-driven NAC functions enhance network-wide identity and compliance.

Extensive Visibility and Network Analytics

Integrated syslog, DHCP snooping, traffic collectors, and FortiGuard IoT identification give deep insights into connected devices and network behavior, helping administrators spot risks and optimize resources.

Automated Threat Response and Recommendations

The switch supports automated device detection and delivers actionable recommendations within security ratings, enabling IT teams to respond quickly to vulnerabilities or compliance gaps as environments change.

Comprehensive UTM and Firewall Integration

Direct integration with FortiGate UTM allows advanced firewall, IPS, antivirus, botnet, and application control functions to be extended to the access edge, helping protect user devices and IoT endpoints throughout the campus or branch.

Technical Specifications

Product Specifications

Feature	Value
Total Network Interfaces	24x GE RJ45 and 4x 10 GE SFP+ ports (SFP+ ports compatible with 1 GE SFP)
Dedicated Management Port	1 × 10/100 port
RJ-45 Serial Console Port	1
Form Factor	1 RU Rack Mount
PoE Ports	24 (802.3af/at)
PoE Power Budget	421 W
Mean Time Between Failures	> 10 years
Switching Capacity (Duplex)	128 Gbps
Packets Per Second (Duplex)	204 Mpps
MAC Address Storage	16 K
Network Latency	< 1μs



Feature	Value
VLANs Supported	4 K
Link Aggregation Group Size	8
Total Link Aggregation Groups	Up to number of ports
Packet Buffers	2 MB
DRAM	1 GB DDR4
FLASH	256 MB
Dimensions (inches)	1.75 x 16.14 x 17.3
Dimensions (mm)	44 x 410 x 440
Weight	12.72 lbs (5.77 kg)
Power Required	100–240V AC, 50/60 Hz
Power Supply	AC built in
Redundant Power	Redundant AC
Power Consumption (Average / Maximum)	431.2 W / 433.7 W
Heat Dissipation	117.2 BTU/h
Operating Temperature	32–122°F (0–50°C)
Storage Temperature	-4–158°F (-20–70°C)
Humidity	5–95% non-condensing
Certification and Compliance	FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2

Product Comparison

Feature	FS-424E-FPOE	C9500-24X-E	C1000-24FP-4X-L
Fixed Ports	24x GE RJ45, 4x 10 GE SFP+	24x 10GE SFP+	24x GE PoE+, 4x 1GE/10GE SFP+
PoE Power Budget	421 W	N/A	370 W
Switching Capacity	128 Gbps	480 Gbps	128 Gbps
Stacking Support	Up to 300 per FortiGate	Up to 8 units	Up to 8 units
Management Integration	FortiLink via FortiGate	Cisco DNA Center	Cisco WebUI/Cisco Business Dashboard
Redundant Power	Yes	Yes	Yes (External RPS)



Feature	FS-424E-FPOE	C9500-24X-E	C1000-24FP-4X-L
Layer 3 Features	Basic/with FortiGate	Advanced	Basic
Dimensions (WxDxH mm)	440 x 410 x 44	444 x 483 x 44	445 x 288 x 44

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none">- Power Adapter- Rack Mount Kit- Quick Start Guide
Optional Accessories	<ul style="list-style-type: none">- SFP/SFP+ Transceiver Modules- Console Cable- Redundant Power Supply



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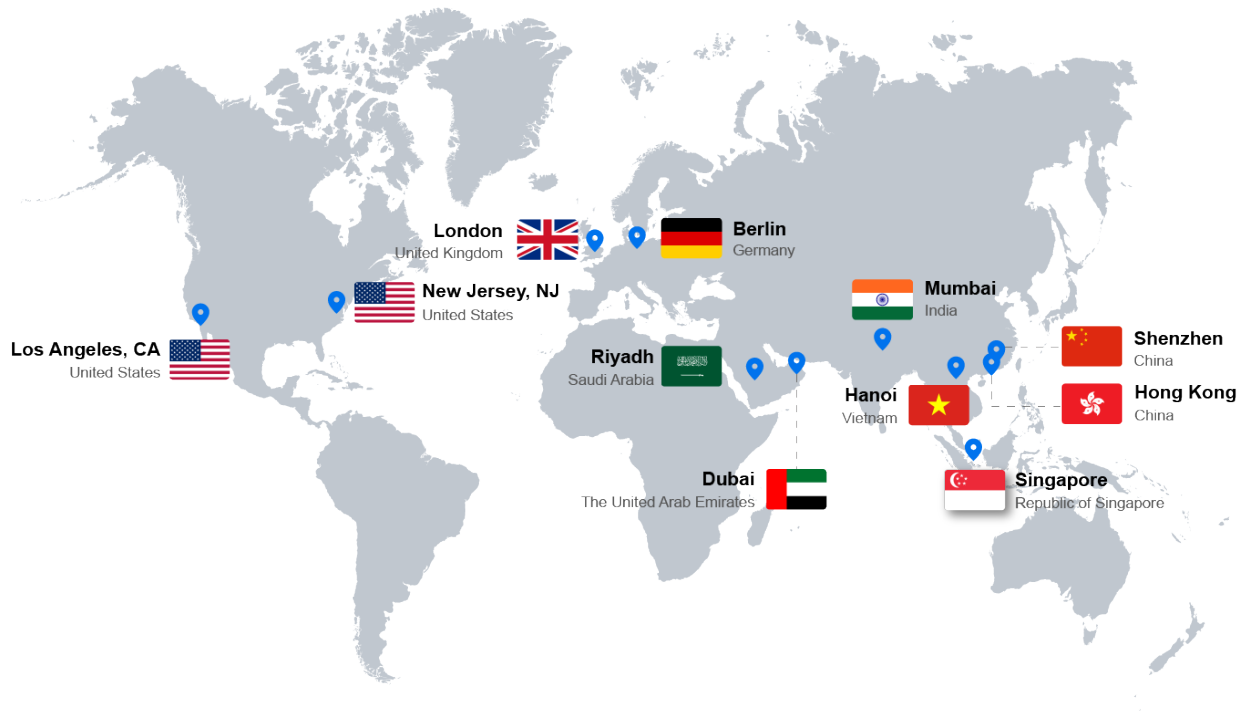
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Global Footprint

Global Warehouses & Service Centers Across Continents.



Global Branches

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References

[1] Fortinet. (2023). FortiSwitch Secure Access Series Datasheet. Retrieved from https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396245/Security/Fortinet/Datasheet_FortiSwitch_Secure_Access_Series.pdf